

Claims

1. An adjustable and sealable jet nebuliser for bottles able to be elastically deformed by squeezing, able to be mounted on the mouth of the neck (2) of a bottle (3) and comprising a conduit for the liquid (17), connected, by means of a check valve, to a suction tube (24) which draws in a liquid contained inside the bottle (3) under a volume of air, and a conduit for the air (16) communicating with said volume of air of the bottle (3), surrounding the conduit for the liquid (17) and ending, together with the conduit for the liquid (17) into a mixing chamber communicating with the exterior through a central exhaust orifice (29), characterised in that:
said conduit for the air (16) and said conduit for the liquid (17) are obtained coaxially in a cylindrical body (4), having, in its portion projecting from the mouth of the bottle neck (2), an external thread (14) to be engaged with an internal counter-thread (37) obtained in a screw-on cap (28), provided with the central exhaust orifice (29), the screw-on cap (28) having a cylindrical wall (30), to be inserted between the conduit for the air (16) and the conduit for the liquid (17), to create a mixing chamber (33) with variable geometry; and
said conduit for the liquid (17) having on its upper end an arm (26) oriented upwards, bearing, at its free end, a tip cap (27), able to be inserted into said central exhaust orifice (29) whilst the screw-on cap (28) is screwed onto the cylindrical body (9), until sealing the nebuliser.
2. Nebuliser as claimed in claim 1, characterised in that at the complete sealing of the nebuliser said screw-on cap (28) abuts the upper end of said body (4).
3. Nebuliser as claimed in claim 1, characterised in that said external thread (14) of the cylindrical body (4) and said internal counter-thread (37) of the screw-on cap (28) have mutual contrast means able to prevent the complete unscrewing of the screw-on cap (28) from the cylindrical body (4).
4. Nebuliser as claimed in claim 3, characterised in that said mutual contrast means are constituted by at least one anti-unscrewing tab (15) fastened tangentially to the cylindrical

body (4) and by an abutment (35), obtained inferiorly in the screw-on cap (28) to serve as an abutment for the anti-unscrewing tab (15).

5. Nebuliser as claimed in claim 4, characterised in that said screw-on cap (28) has a cylindrical wall (31) in a lower profile (41) whereof, inclined by the same angle as said internal thread (14), are obtained slots (34), which interrupt the lower profile (41) to produce a "stepped" rotation for the accurate angular positioning of the screw-on cap (28).

6. Nebuliser as claimed in claim 1, characterised in that antagonist diametrical projections and recessions (36) are obtained on the cylindrical body (4) in proximity to and at the same side as the thread (14) and, respectively, in proximity to and at the same side as the counter-thread (37) of the screw-on cap (28) upon reaching the predetermined screwing of the screw-on cap (28) on the cylindrical body (4) to obtain an adequate regulation of the flow rate of nebulised liquid in the mixing chamber with variable geometry (33) and hence in the exhaust orifice (29).

7. Nebuliser as claimed in claim 1, characterised in that said tip cap (27) and said central exhaust orifice (29) have cone frustum shape.

8. Nebuliser as claimed in claim 1, characterised in that said cylindrical wall (30) of the screw-on cap (28) has walls which become thinner downwards.

9. Nebuliser as claimed in claim 1, characterised in that said cylindrical body (4) is mounted on the mouth of the neck (2) provided with an external thread (8), with the interposition of a gasket (7), through a ring nut (9) provided with an internal counter-thread (12) able to engage the external thread (8).

10. Nebuliser as claimed in claim 1, characterised in that said ring nut (9) has a cylindrical portion (10) projecting from the mouth, and said screw-on cap (28) is cupola-shaped with peripheral portions able to overhang said cylindrical portion (10).